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IN THE CLAIMS:

*Please amend the claims as follows:*

1. (Currently Amended) A method for synchronizing the phase of a code available at a receiving unit with the phase of a corresponding code of which samples are received at said receiving unit, comprising:  
comparing said received code sample with different samples of said available code at said receiving unit, and  
shifting the respective sample of said available code in phase for each comparison by a predetermined amount until a correspondence with said received code sample is determined or until a measurement related interrupt of said synchronization occurs,  
wherein said synchronization is continued after the measurement related interrupt with a newly received code sample and with available code samples proceeding from the code phase of said available code reached in said synchronization before said measurement related interrupt shifted by an amount corresponding to the time elapsed between the time of reception of the last code sample before said measurement related interrupt and the time of reception of the new code sample after said measurement related interrupt.
2. (CANCELLED)
3. (CANCELLED)
4. (Previously Presented) The method according to claim 3, wherein said code phase of said available code is shifted by a first predetermined amount until code samples spanning the entire code have been checked, and wherein, in case no correspondence between said received code sample and an available code sample is determined with the resulting code phases, said code phase is shifted once by a different predetermined amount for further comparisons.

5. (Previously Presented) The method according to claim 4, wherein said code samples are received at said receiving unit by a communication network in form of a pilot signal during an Idle Period, Down Link.
6. (Previously Presented) The method according to claim 5, wherein said received code sample is stored in a dedicated random access memory, from which it is retrieved for said synchronization calculations.
7. (Previously Presented) The method according to claim 6, wherein said comparison is carried out by a matched filter performing correlation calculations on a respective pair of received and available code samples.
8. (Currently Amended) A receiving unit, comprising:
  - means for providing an available code;
  - means for receiving samples of a code via the air interface; and
  - means for synchronizing a phase of said available code with a phase of the received code sample;wherein said means for synchronizing are for comparing said received code sample with different samples of said available code;  
wherein said means synchronizing are for shifting the respective sample of said available code in phase for each comparison by a predetermined amount until a correspondence with said received code sample is determined or until a measurement related interrupt of said synchronization occurs; and  
wherein said synchronization is continued after the measurement related interrupt with a newly received code sample and with available code samples proceeding from the code phase of said available code reached in said synchronization before said measurement related interrupt shifted by an amount corresponding to the time elapsed between the time of reception of the last code sample before said measurement related interrupt and the time of reception of the new code sample after said measurement related interrupt.

9. (Previously Presented) The receiving unit according to claim 8, which is a location measurement unit for a location system.
10. (Currently Amended) A mobile communication system, comprising:
  - a transmitting unit for transmitting a coded signal, and
  - a receiving unit comprising:
    - a storing portion for providing an available code,
    - a receiver for receiving samples of a received code via an air interface, and
    - a synchronizing portion for synchronizing a phase of said available code with a phase of the received code sample,wherein said synchronizing portion is configured to compare said received code sample with different samples of said available code,  
wherein said synchronizing portion is configured to shift the respective sample of said available code in phase for each comparison by a predetermined amount until a correspondence with said received code sample is determined or until a measurement related interrupt of said synchronization occurs,  
wherein said synchronization is continued after the measurement related interrupt with a newly received code sample and with available code samples proceeding from the code phase of said available code reached in said synchronization before said measurement related interrupt shifted by an amount corresponding to the time elapsed between the time of reception of the last code sample before said measurement related interrupt and the time of reception of the new code sample after said measurement related interrupt.
11. (Previously Presented) The mobile communication system according to claim 10, which is a wideband code division multiple access system.
12. (Previously Presented) The method according to claim 1, wherein said synchronization is equally ended when a comparison has been carried out without success for all code phases that can be reached with predetermined shifts.

13. (Previously Presented) The method according to claim 1, wherein said code phase of said available code is shifted by a first predetermined amount until code samples spanning the entire code have been checked, and wherein, in case no correspondence between a received code sample and an available code sample is determined with the resulting code phases, said code phase is shifted once by a different predetermined amount for further comparisons.
14. (Previously Presented) The method according to claim 1, wherein said code samples are received at said receiving unit by a communication network in form of a pilot signal during an Idle Period, Down Link.
15. (Previously Presented) The method according to claim 1, wherein said received code sample is stored in a dedicated random access memory, from which it is retrieved for said synchronization calculations.
16. (Previously Presented) The method according to claim 1, wherein said comparison is carried out by a matched filter performing correlation calculations on a respective pair of received and available code samples.
17. (Currently Amended) A receiving unit, comprising:
  - a storing portion for providing an available code,
  - a receiver for receiving samples of a received code via an air interface, and
  - a synchronizing portion for synchronizing a phase of said available code with a phase of the received code sample,wherein said synchronizing portion is configured to compare said received code sample with at least one sample of said available code,  
wherein said synchronizing portion is configured to shift the respective sample of said available code in phase for each comparison by a predetermined amount until a correspondence with said received code sample is determined or until a measurement related interrupt of said synchronization occurs,

wherein said synchronization is continued after the measurement related interrupt with a newly received code sample and with available code samples proceeding from the code phase of said available code reached in said synchronization before said measurement related interrupt shifted by an amount corresponding to the time elapsed between the time of reception of the last code sample before said measurement related interrupt and the time of reception of the new code sample after said measurement related interrupt.